

# Work Order ID 85810

June-15-12 1:26:25 PM

**\*85810\***

Page 1

Item ID: D4009-041

Accept

**\*N900040100\***

Setup Start **\*NS1\***

Revision ID:

Item Name: Bonding Braid

Stop **\*NS2\***

Start Date: 15/06/2012 Start Qty: 6.00

**\*6\***

Cust Item ID:

Required Date: 29/06/2012 Req'd Qty: 6.00

**\*6\***

Customer:

Reference:

Approvals: Process Plan: MLJ

Date: 12/06/15 Tooling:

Date:

Run Start **\*NR1\***

QC:

Date: SPC (Y/N):

Date:

Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
----------	--------------

D4009	A
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100		0.00							
-----	--	------	--	--	--	--	--	--	--

**\*100\***

Small Fab

Memo

0.00

Small Fab

assemble as per dwg D4009

12X

12/07/13

110	QC5- Inspect part completeness to step on W/O	0.00							
-----	---	------	--	--	--	--	--	--	--

**\*110\***

QC

Memo

0.00

Quality Control

8/7/12/13

(12)

120	Identify as per dwg & Stock Location	0.00							
-----	--------------------------------------	------	--	--	--	--	--	--	--

**\*120\***

Packaging

Memo

0.00

Packaging

ST142

12X

SP  
12-7-3

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

**Work Order ID 85810****\*85810\***

Page 2

June-15-12 1:26:26 PM

Item ID: D4009-041

Accept

**\*N900040100\***Setup Start **\*NS1\***

Revision ID:

Stop **\*NS2\***

Item Name: Bonding Braid

Start Date: 15/06/2012 Start Qty: 6.00

**\*6\***

Cust Item ID:

Required Date: 29/06/2012 Req'd Qty: 6.00

**\*6\***

Customer:

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_

Date: \_\_\_\_\_

Run Start **\*NR1\***

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_

Date: \_\_\_\_\_

Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours
130	QC21- Final Inspection - Work Order Release	0.00

Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
---------	--------	--------------	---------------	---------------	------------------	----------------


**\*130\***

QC

Memo

0.00

Quality Control

12/1/4 

112-074

**Dart Aerospace Ltd**

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

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**NOTE:** Date & initial all entries

# Picklist Print

June-15-12 1:26:29 PM

Page 1

Work Order ID: 85810

\*85810\*

Parent Item: D4009-041

\*D4009-041\*

Parent Item Name: Bonding Braid

Start Date: 15/06/2012

Required Date: 29/06/2012

Start Qty: 6.00

Required Qty: 6.00

Comments: IPP rev A 10.02.02 new issue Prelim EC verified by:DD IPP Rev:B  
10.05.03 as per ECN10-562 DD verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D4009-1 *D4009-1* Terminal End		Manufactured	No			100	Each	82.0000	2	12			

\*\*

Location

Loc Qty

Loc Code

ST083

81

82659

81

ST108

1

72674

1

D4009-3

Manufactured No

100

Each

3.0000

1

6

\*D4009-3\*

Ground Strap

\*\*

Location

Loc Qty

Loc Code

ST083

1

80517

1

ST109

2

72536

2

D4009-5

Manufactured No

100

Each

1.0000

1

6

\*D4009-5\*

Ground Strap

\*\*

Location

Loc Qty

Loc Code

ST109

1

72537

1

B85769 (IX)

B86361 (IX)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
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**NOTE:** Date & initial all entries

# Picklist Print

June-15-12 1:26:29 PM

Page 2

Work Order ID: 85810

Parent Item: D4009-041

Parent Item Name: Bonding Braid

\*85810\*

\*D4009-041\*

Start Date: 15/06/2012

Required Date: 29/06/2012

Start Qty: 6.00

Required Qty: 6.00

D4009-7  
\*D4009-7\*  
Tab

Manufactured No

100

Each

21.0000

1

6

\*\*

EP 12/07/03

Location

Loc Qty

Loc Code

ST108

21

62137

2

67265

19

Manufactured No

100

Each

3.0000

1

6

\*\*

EP 12/07/03

D4009-9

\*D4009-9\*

Receptacle

Location

Loc Qty

Loc Code

ST108

3

62138

2

72675

1

B85979

(12x)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

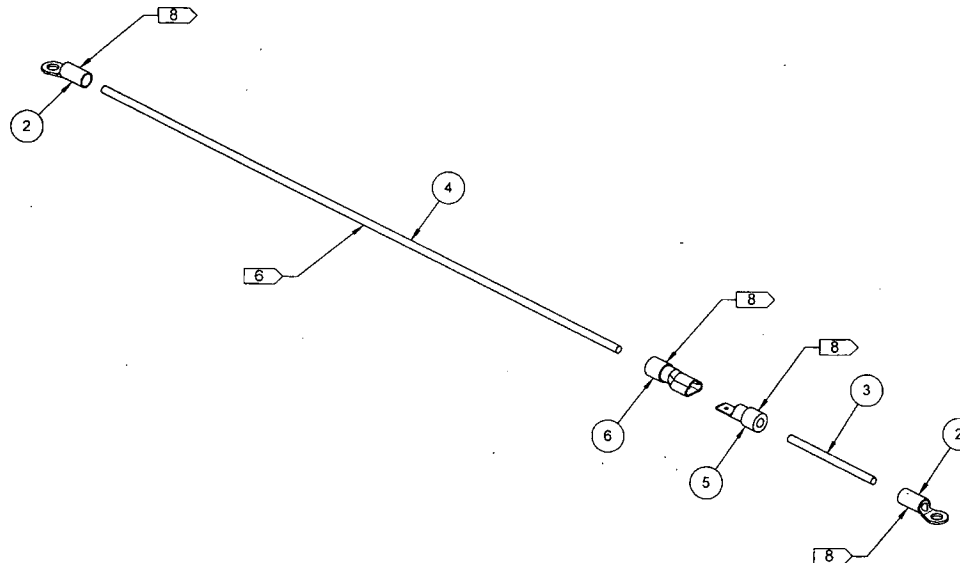
Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries



ITEM NO.	QTY. -041	PART NUMBER	DESCRIPTION	JOHN CAMERON AVIATION PART NUMBER
1	X	D4009-041	BONDING BRAID	JCA-M47-4-01
2	2	D4009-1	TERMINAL END	
3	1	D4009-3	GROUND STRAP	
4	1	D4009-5	GROUND STRAP	
5	1	D4009-7	TAB	
6	1	D4009-9	RECEPTACLE	



**D4009-041 BONDING BRAID**

SHOP COPY  
RETURN TO  
ENGINEERING  
UNCONTROLLED COPY  
SUBJECT TO AMENDMENT  
WITHOUT NOTICE

WORK ORDER

NO. 85810 MLJ  
12/06/15

**RELEASED**  
2010-05-05  
*MP*

- NOTES:
- 1) MATERIAL: N/A
  - 2) FINISH: N/A
  - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
  - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
  - 5) BREAK SHARP EDGES: N/A
  - 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4009-041" AND B/N USING D2729-1 LABEL INSTALLED WITH D2182-045 HEAT SHRINK
  - 7) WEIGHT: N/A
  - 8) USE CRIMPING TOOL P/N 59824-1

A	NEW ISSUE		10.02.05
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.02.05		

<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWING NO. <b>D4009</b>	REV. A
TITLE <b>GROUND STRAP</b>	SCALE NTS
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**Dart Aerospace Ltd**

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

DART AEROSPACE  
PART NUMBER

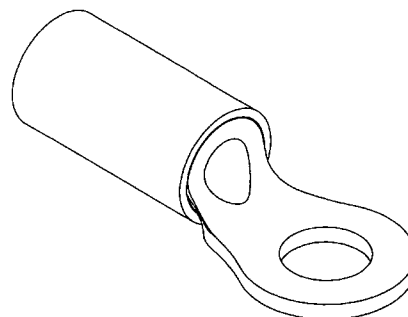
D4009-1

JOHN CAMERON AVIATION  
PART NUMBER

REF JCA-M47-4-01

# SPECIFICATION CONTROL DRAWING

05810



DART PART NUMBER	SUPPLIER	SUPPLIER PART NUMBER	MILITARY PART NUMBER	INSTALLATION TOOL PART NUMBER
D4009-1	TYCO ELECTRONICS	36161	MS25036-112	59824-1

D4009-X TERMINAL END

RELEASED  
2010-05-05  
JHP

**NOTES:**

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: N/A

DESIGN	<i>JS</i>	<b>DART AEROSPACE LTD</b>	
DRAWN	<i>JS</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>JS</i>	DRAWING NO.	REV. A
MFG. APPR.	<i>EE</i>	D4009	SHEET 2 OF 5
APPROVED	<i>JS</i>	TITLE	SCALE
DE APPR.	<i>JS</i>	GROUND STRAP	NTS
DATE	10.02.05	COPYRIGHT © 2010 BY DART AEROSPACE LTD	
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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

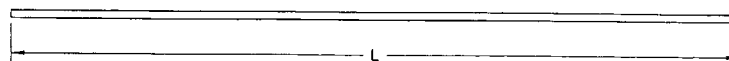
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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4009-3	REF JCA-M47-4-01
D4009-5	REF JCA-M47-4-01

## SPECIFICATION CONTROL DRAWING

85810



DART PART NUMBER	LENGTH "L"
D4009-3	1.5
D4009-5	13.5

### D4009-X GROUND STRAP

RELEASED  
2010-05-05  
WJ

#### NOTES:

- 1) MATERIAL: MADE FROM AVIALL P/N 1171 (OR SEA-171) OR C.O.R.E. AVIATION P/N QQ8575R36T250
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: N/A

DESIGN		<b>DART AEROSPACE LTD</b>	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.		<b>D4009</b>	SHEET 3 OF 5
APPROVED		TITLE	SCALE
DE APPR.		<b>GROUND STRAP</b>	NTS
DATE	<b>10.02.05</b>	<small>COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

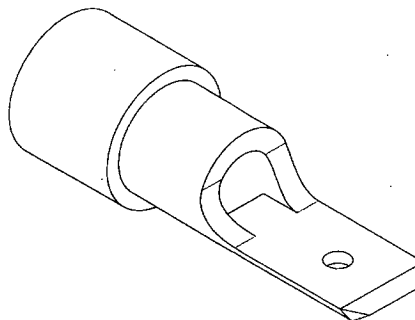
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NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# SPECIFICATION CONTROL DRAWING

25810



DART PART NUMBER	SUPPLIER	SUPPLIER PART NUMBER	INSTALLATION TOOL PART NUMBER
D4009-7	TYCO ELECTRONICS C.O.R.E. AVIATION	8-696372-1	59824-1

D4009-X TAB

RELEASED  
2010-05-05  
WV

NOTES:  
1) MATERIAL: N/A  
2) FINISH: N/A  
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED  
4) UNITS: INCHES UNLESS OTHERWISE NOTED  
5) BREAK SHARP EDGES: N/A  
6) IDENTIFICATION: N/A  
7) WEIGHT: N/A

DESIGN		<b>DART AEROSPACE LTD</b>	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.		D4009	SHEET 4 OF 5
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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

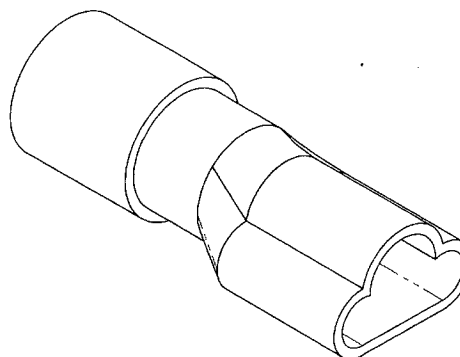
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**NOTE:** Date & initial all entries



# SPECIFICATION CONTROL DRAWING

85810



DART PART NUMBER	SUPPLIER	SUPPLIER PART NUMBER	INSTALLATION TOOL PART NUMBER
D4009-9	TYCO ELECTRONICS C.O.R.E. AVIATION	8-696371-1	59824-1

## D4009-X RECEPTACLE

RELEASED  
2010-05-05

- NOTES:
- 1) MATERIAL: N/A
  - 2) FINISH: N/A
  - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
  - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
  - 5) BREAK SHARP EDGES: N/A
  - 6) IDENTIFICATION: N/A
  - 7) WEIGHT: N/A

DESIGN		<b>DART AEROSPACE LTD</b>	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.		D4009	SHEET 5 OF 5
APPROVED		TITLE	SCALE
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